

*Barbara  
Campbell*  
PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/830,905

DATE: 05/21/2001

TIME: 08:31:01

Input Set : A:\seq.txt

Output Set: N:\CRF3\05212001\I830905.raw

# ENTERED

5 <110> APPLICANT: Breaker, Ronald R.  
 7 Soukup, Garrett A.  
 9 <120> TITLE OF INVENTION: Multidomain Polynucleotide Sensors  
 11 <130> FILE REFERENCE: OCR-794B.US  
 W--> 13 <140> CURRENT APPLICATION NUMBER: US/09/830,905  
 13 <141> CURRENT FILING DATE: 2001-05-02  
 15 <150> PRIOR APPLICATION NUMBER: PCT/US99/25497  
 17 <151> PRIOR FILING DATE: 1999-10-29  
 19 <160> NUMBER OF SEQ ID NOS: 34  
 21 <170> SOFTWARE: MS-DOS  
 25 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 27  
 29 <212> TYPE: RNA  
 31 <213> ORGANISM: artificial sequence  
 33 <220> FEATURE:  
 35 <222> LOCATION: III  
 37 <223> OTHER INFORMATION: hammerhead ribozyme  
 38 denoted III, upper strand in figure  
 40 <300> PUBLICATION INFORMATION:  
 42 <301> AUTHORS: Hertel, K.J., et al.  
 44 <302> TITLE: Numbering system for the hammerhead  
 46 <303> JOURNAL: Nucleic Acids Res  
 48 <304> VOLUME: 20  
 50 <306> PAGES: 3252  
 52 <307> DATE: 1992  
 54 <400> SEQUENCE: 1  
 56 cgaaacggug aaagccguag guugccc 27  
 60 <210> SEQ ID NO: 2  
 62 <211> LENGTH: 17  
 64 <212> TYPE: RNA  
 66 <213> ORGANISM: artificial sequence  
 68 <220> FEATURE:  
 70 <223> OTHER INFORMATION: hammerhead ribozyme  
 71 denoted I, lower strand in figure  
 73 <300> PUBLICATION INFORMATION:  
 75 <301> AUTHORS: Hertel, K.J., et al.  
 77 <302> TITLE: Numbering system for the hammerhead  
 79 <303> JOURNAL: Nucleic Acids Res  
 81 <304> VOLUME: 20  
 83 <306> PAGES: 3252  
 85 <307> DATE: 1992  
 87 <400> SEQUENCE: 2  
 89 gggcgacccu gaugaga 17  
 93 <210> SEQ ID NO: 3  
 95 <211> LENGTH: 24  
 97 <212> TYPE: RNA  
 99 <213> ORGANISM: artificial sequence

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101 <220> FEATURE:
103 <223> OTHER INFORMATION: FMN aptamer boxed in figure
105 <400> SEQUENCE: 3
107 aggauaugcu ucuucggcag aagg                24
111 <210> SEQ ID NO: 4
113 <211> LENGTH: 22
115 <212> TYPE: RNA
117 <213> ORGANISM: artificial sequence
119 <220> FEATURE:
121 <223> OTHER INFORMATION: I-1 class I induction module
123 <400> SEQUENCE: 4
125 gccuuagccu ucggcgacg uc                22
129 <210> SEQ ID NO: 5
131 <211> LENGTH: 21
133 <212> TYPE: RNA
135 <213> ORGANISM: artificial sequence
137 <220> FEATURE:
139 <223> OTHER INFORMATION: I-2 class I induction module
141 <400> SEQUENCE: 5
143 gccuugccuu cgggcgacgu c                21
147 <210> SEQ ID NO: 6
149 <211> LENGTH: 21
151 <212> TYPE: RNA
153 <213> ORGANISM: artificial sequence
155 <220> FEATURE:
157 <223> OTHER INFORMATION: I-3 class I induction module
159 <400> SEQUENCE: 6
161 gcguugccuu cgggcgacgc c                21
165 <210> SEQ ID NO: 7
167 <211> LENGTH: 18
169 <212> TYPE: RNA
171 <213> ORGANISM: artificial sequence
173 <220> FEATURE:
175 <223> OTHER INFORMATION: class II induction module
177 <400> SEQUENCE: 7
179 gauggccuuc gggcucuc                18
183 <210> SEQ ID NO: 8
185 <211> LENGTH: 25
187 <212> TYPE: RNA
189 <213> ORGANISM: artificial sequence
191 <220> FEATURE:
193 <223> OTHER INFORMATION: theophylline aptamer
194     boxed in figure
196 <400> SEQUENCE: 8
198 auaccagccg aaaggcccuu ggcag                25
202 <210> SEQ ID NO: 9
204 <211> LENGTH: 24
206 <212> TYPE: RNA
208 <213> ORGANISM: artificial sequence

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210 <220> FEATURE:
212 <223> OTHER INFORMATION: clone cGMP-1
214 <400> SEQUENCE: 9
216 cagcagucgu ggaaaaacgu agcg                24
220 <210> SEQ ID NO: 10
222 <211> LENGTH: 25
224 <212> TYPE: RNA
226 <213> ORGANISM: artificial sequence
228 <220> FEATURE:
230 <223> OTHER INFORMATION: clone cGMP-2
232 <400> SEQUENCE: 10
234 gagaagcugg aaaaacgcaa acacg                25
238 <210> SEQ ID NO: 11
240 <211> LENGTH: 23
242 <212> TYPE: RNA
244 <213> ORGANISM: artificial sequence
246 <220> FEATURE:
248 <223> OTHER INFORMATION: clone cGMP-3
250 <400> SEQUENCE: 11
252 cgcaccaacg uucgucggcu gca                23
256 <210> SEQ ID NO: 12
258 <211> LENGTH: 23
260 <212> TYPE: RNA
262 <213> ORGANISM: artificial sequence
264 <220> FEATURE:
266 <223> OTHER INFORMATION: clone cGMP-4
268 <400> SEQUENCE: 12
270 accccagagg ucagcugcau aac                23
274 <210> SEQ ID NO: 13
276 <211> LENGTH: 24
278 <212> TYPE: RNA
280 <213> ORGANISM: artificial sequence
282 <220> FEATURE:
284 <223> OTHER INFORMATION: clone cGMP-5
286 <400> SEQUENCE: 13
288 gcaccgacgg uagcgaggcg auua                24
292 <210> SEQ ID NO: 14
294 <211> LENGTH: 22
296 <212> TYPE: RNA
298 <213> ORGANISM: artificial sequence
300 <220> FEATURE:
302 <223> OTHER INFORMATION: clone cGMP-6
304 <400> SEQUENCE: 14
306 uugcgcgacu acaacgcaau ua                22
310 <210> SEQ ID NO: 15
312 <211> LENGTH: 21
314 <212> TYPE: RNA
316 <213> ORGANISM: artificial sequence
318 <220> FEATURE:

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320 <223> OTHER INFORMATION: clone cGMP-7
322 <400> SEQUENCE: 15
324 caaugucacu cagcacgauu a                               21
328 <210> SEQ ID NO: 16
330 <211> LENGTH: 22
332 <212> TYPE: RNA
334 <213> ORGANISM: artificial sequence
336 <220> FEATURE:
338 <223> OTHER INFORMATION: clone cGMP-8
340 <400> SEQUENCE: 16
342 cggggcucau agcuugccac gc                               22
346 <210> SEQ ID NO: 17
348 <211> LENGTH: 25
350 <212> TYPE: RNA
352 <213> ORGANISM: artificial sequence
354 <220> FEATURE:
356 <223> OTHER INFORMATION: clone cCMP-1
358 <400> SEQUENCE: 17
360 cacagaaagu ggugugaacc gggau                           25
364 <210> SEQ ID NO: 18
366 <211> LENGTH: 25
368 <212> TYPE: RNA
370 <213> ORGANISM: artificial sequence
372 <220> FEATURE:
374 <223> OTHER INFORMATION: clone cCMP-2
376 <400> SEQUENCE: 18
378 ggauaaggug ucugcacuag uggau                           25
382 <210> SEQ ID NO: 19
384 <211> LENGTH: 24
386 <212> TYPE: RNA
388 <213> ORGANISM: artificial sequence
390 <220> FEATURE:
392 <223> OTHER INFORMATION: clone cCMP-3
394 <400> SEQUENCE: 19
396 caaaaacggc gacuaccgcg auua                             24
400 <210> SEQ ID NO: 20
402 <211> LENGTH: 24
404 <212> TYPE: RNA
406 <213> ORGANISM: artificial sequence
408 <220> FEATURE:
410 <223> OTHER INFORMATION: clone cCMP-4
412 <400> SEQUENCE: 20
414 gaguugcgcg cagaaccgcc auua                             24
418 <210> SEQ ID NO: 21
420 <211> LENGTH: 24
422 <212> TYPE: RNA
424 <213> ORGANISM: artificial sequence
426 <220> FEATURE:
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430 <400> SEQUENCE: 21
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438 <211> LENGTH: 25
440 <212> TYPE: RNA
442 <213> ORGANISM: artificial sequence
444 <220> FEATURE:
446 <223> OTHER INFORMATION: clone cCMP-6
448 <400> SEQUENCE: 22
450 aaaguugcgg acuacaacgc aaaua                25
454 <210> SEQ ID NO: 23
456 <211> LENGTH: 24
458 <212> TYPE: RNA
460 <213> ORGANISM: artificial sequence
462 <220> FEATURE:
464 <223> OTHER INFORMATION: clone cCMP-7
466 <400> SEQUENCE: 23
468 ugcggacuug caaugcgccga uua                24
472 <210> SEQ ID NO: 24
474 <211> LENGTH: 24
476 <212> TYPE: RNA
478 <213> ORGANISM: artificial sequence
480 <220> FEATURE:
482 <223> OTHER INFORMATION: clone cAMP-1
484 <400> SEQUENCE: 24
486 ucaguacacg gugcagacaa aggu                24
490 <210> SEQ ID NO: 25
492 <211> LENGTH: 24
494 <212> TYPE: RNA
496 <213> ORGANISM: artificial sequence
498 <220> FEATURE:
500 <223> OTHER INFORMATION: clone cAMP-2
502 <400> SEQUENCE: 25
504 ucgaggaggc aggugcaugu gggc                24
508 <210> SEQ ID NO: 26
510 <211> LENGTH: 23
512 <212> TYPE: RNA
514 <213> ORGANISM: artificial sequence
516 <220> FEATURE:
518 <223> OTHER INFORMATION: clone cAMP-3
520 <400> SEQUENCE: 26
522 ccccgcgca uggacgacg agu                    23
526 <210> SEQ ID NO: 27
528 <211> LENGTH: 23
530 <212> TYPE: RNA
532 <213> ORGANISM: artificial sequence
534 <220> FEATURE:
536 <223> OTHER INFORMATION: clone cAMP-4
538 <400> SEQUENCE: 27

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VERIFICATION SUMMARY

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L:13 M:282 W: Numeric Field Identifier Missing, <140> CURRENT APPLICATION NUMBER: is Added.